

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
3 February 2005 (03.02.2005)

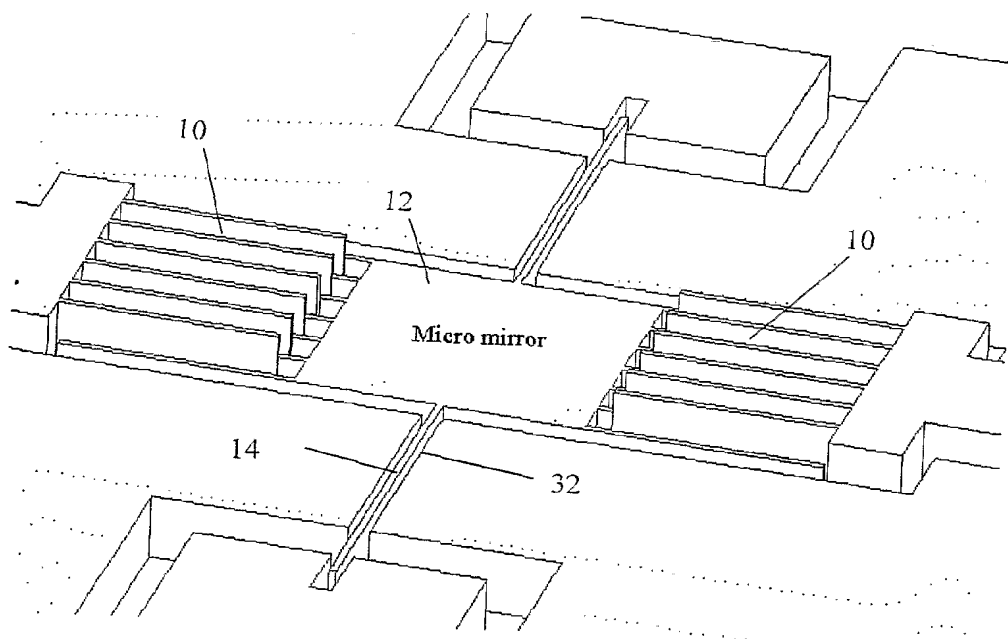
PCT

(10) International Publication Number  
**WO 2005/011071 A2**

- (51) International Patent Classification<sup>7</sup>: **H01S**
- (21) International Application Number: PCT/IL2004/000682
- (22) International Filing Date: 26 July 2004 (26.07.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
60/490,580 28 July 2003 (28.07.2003) US
- (71) Applicant (for all designated States except US): **TECHNION RESEARCH AND DEVELOPMENT FOUNDATION LTD.** [IL/IL]; Senate Building, Technion City, 32000 Haifa (IL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **NAFTALI, Matan** [IL/IL]; 20/2 Hurshat Tal st., 20600 Yoqne'am (IL). **ELATA, David** [IL/IL]; 97/4 Einstein st., 34601 Haifa (IL).
- (74) Agent: **MILLER-SIERADZKI, ADVOCATES & PATENT ATTORNEYS**; P.O.B. 6145, 31061 Haifa (IL).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: VERTICAL COMB DRIVE AND USES THEREOF



(57) Abstract: A method for providing a vertical comb drive. The method comprises: fabricating a device comprising rotor comb element, the rotor element comb comprising a main body and a plurality of substantially parallel extensions in a comb arrangement, and at least one of a plurality of stator comb elements, comprising a main body and a plurality of substantially parallel extensions in a comb arrangement, adapted to be interlaced with the rotor, all on a single layer of a substrate.

WO 2005/011071 A2



**Published:**

— without international search report and to be republished  
upon receipt of that report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*